MAMMALIAN SPECIES No. 26, pp. 1-4, 4 figs.

Taxidea taxus. By Charles A. Long

Published 13 June 1973 by The American Society of Mammalogists

Taxidea Waterhouse, 1838

Taxidea Waterhouse, 1838:154. Type species Ursus labradorius

Gmelin, by original designation.

Taxus Say, 1823:369. Type species Taxus labradorius, by monotypy.

CONTEXT AND CONTENT. Order Carnivora, Family Mustelidae, Subfamily Taxidiinae (Long, 1965b). The genus includes one Recent species, Taxidea taxus (see below), and Pleistocene taxa, possibly species, named mexicanus Drescher, 1939, sulcata Cope, 1878, robusta Hay, 1921, and papagoensis

Taxidea taxus (Schreber, 1778)

North American Badger

Ursus taxus Schreber, 1778:520, fig. 142B. Type locality "pays des Esquimaux" from Buffon, 1776:243-244.

Meles Taxus β americanus Boddaert, 1784:80. Type locality North America.

Ursus labradorius Gmelin, 1788:102. A renaming of Ursus taxus Schreber.



FIGURE 1. North American badger from Ibapah, Utah. In the southernmost subspecies, unlike the specimen shown, the dorsal whitish stripe extends to the base of the tail. Note the "badges" on the face, and the fossorial foreclaws. Photo by R. Porter.

Meles jeffersonii Harlan, 1825:309. Type locality "open plains of Columbia [River Valley], sometimes those of Missouri [Valley.]"

Taxidea berlandieri Baird, 1858:205. Type locality Llano Estacado, Texas, near boundary of New Mexico.

†Taxidea marylandica Gidley and Gaxin, 1933:352. Type locality Cumberland Cave, Allegany County, Maryland. Age Pleistocene.

CONTENT. Long (1972) recognized four Recent and one extinct Pleistocene subspecies as follows:

T. t. taxus (Schreber, 1778:520), see above (americanus Boddaert, 1784, labradorius Gmelin, 1788, dacotensis Schantz, 1946, iowae Schantz, 1947, merriami Schantz, 1950, and kansensis Schantz, 1950, are synonyms).

T. t. jeffersonii (Harlan, 1825:309), see above (sulcata Cope, 1878, neglecta Mearns, 1891, and montana Schantz, 1950, are synonyms, the last according to Long, 1964b:371, 1972, and Opinion 897 of the Internat. Comm. Zool. Nomenclature, 1970).

T. t. jacksoni Schantz, 1945:431. Type locality 4 mi. E Milton, Rock Co., Wisconsin.

T. t. berlandieri Baird, 1858:205, see above (labradoria Waterhouse, 1838—see Baird, 1858:201, not Ursus Meles lab-radorius Gmelin, 1788, californica Gray, 1865, infusca Thomas, 1898, phippsi Figgins, 1918, robusta Hay, 1921, sonoriensis Goldman, 1939, papagoensis Skinner, 1943, apache Schantz, 1948, littoralis Schantz, 1949, hallorani Schantz, 1949, and nevadensis Schantz, 1949, the last renamed halli Schantz, 1951, are synonyms).

T. t. marylandica Gidley and Gazin, 1933 (see Long, 1964a). Type locality Cumberland Cave, Maryland, Pleistocene. Regarded as a distinct species by the authors, and as inseparable from T. t. taxus by Hall (1944).

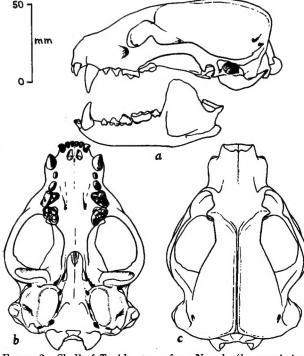


FIGURE 2. Skull of Taxidea taxus from Nevada (by permission of Professor E. Raymond Hall, from Hall, 1946:215). Lateral view of skull and lower jaw (a), ventral view (b), and dorsal

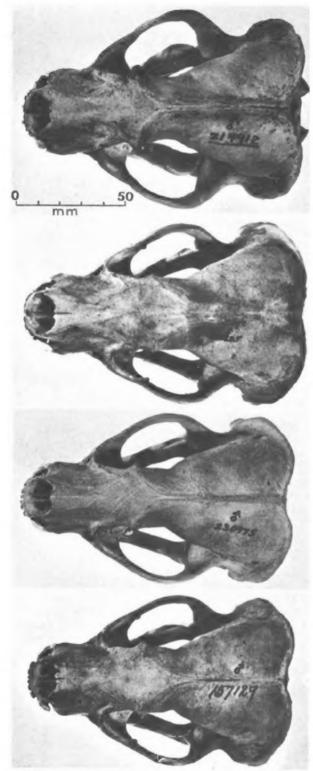


FIGURE 3. Skulls of the four Recent subspecies of *Taxidea taxus*. From top to bottom these are: *T. t. jeffersonii*, male from Dillon, Montana; *T. t. taxus*, male from Carmen, Manitaba; *T. t. jacksoni*, male from Mamie Lake, Wisconsin; *T. t. berlandieri*, male from San Luis Mountains, Chihuahua. All skulls in U. S. National Museum.

DIAGNOSIS. The following diagnosis refers to both genus and species. Upper molar subtriangular, nearly right-angled with hypotenuse posterolateral; carnassial premolar also subtriangular with longest side posteromedial; skull wedge-shaped, broad posteriorly; auditory and mastoid bullae large; skull varying from 113 to 141 mm in length; frontals

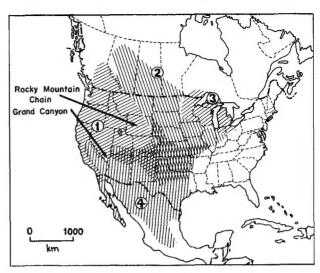


FIGURE 4. The distribution of Taxidea taxus in North America. Subspecies are: 1, T. t. jeffersonii; 2, T. t. taxus; 3, T. t. jacksoni; 4, T. t. berlandieri. Cross hatching shows areas of intergradation. The Rocky Mountains and the Grand Canyon seem important in the differentiation of the western subspecies.

in juveniles escutcheon-shaped, fused in adults; body depressed and stout, legs short; feet subdigitigrade, with long curved foreclaws and shovel-like hind claws; toes of forefeet partially webbed; nictitating membrane can cover eye; pelage shaggy, grayish or brownish with white medial stripe on head, extending to base of tail in berlandieri; feet black or brown; "badges" of black on face surrounded by white; eight mammae; penis large, bearing scalloped projection distally; baculum hooked and twisted; adult dentition i 3/3, c 1/1, p 3/3, m 1/2, total 34; deciduous dentition di 1 or 2/0, dc 1/1, dp 3/3, total 18 or 20. Weights in large northern badgers up to 26½ pounds (12 kg) in males, which are larger than females. After Coues (1877) and Long (1965b, 1969, and 1972). See figure 1 for external view of Taxidea taxus and figure 2 for cranial details; dorsal views of the skulls of four Recent subspecies are shown in figure 3.

GENERAL CHARACTERS. Total length is about 600 to 730, length of tail vertebrae is 105 to 135, and length of hind foot ranges from 95 to 128. Other descriptions may be found in Audubon and Bachman, 1847; Baird, 1858; Coues, 1877; Mearns, 1891, Pocock, 1920, 1925; and Seton, 1929, which include photographs, measurements, and drawings. Long and Long (1965) described dental variations; and Long (1965b) the juvenile skull and the relationship with Meles.

DISTRIBUTION. The geographic range of the four Recent subspecies listed above is mapped in figure 4. Fossil occurrences in Alaska (Péwé, 1957), Maryland and New York (Gidley and Gazin, 1933), and Kentucky (Guilday, 1968), reveal profound distributional shifts in the Pleistocene. The altitudinal range is below sea level (Death Valley) to about 3660 m (12,000 feet). Ordinarily found in the treeless habitats of Transition and Upper Sonoran life-zones, the badger is known from Arctic-alpine down to the lower Austral Life-zone. Presently the badger is expanding its range eastward (Lyon, 1932; Snyder, 1935; Leedy, 1947; and Nugent and Choate, 1970).

FOSSIL RECORD. Taxidea has been reported from the late Pliocene (Bjork, 1970; Hibbard, 1941; Drescher, 1939); most workers regard assignment of these remains to T. taxus as questionable, and others regard some of the deposits as possibly Pleistocene. Some Pleistocene records have been mentioned above and by Long (1972). Pliotaxidea Butterworth is probably close to the ancestral line of Recent badgers (Hall, 1944).

FORM. Hall (1927) described the musculature in Taxidea. Long and Frank (1968) discussed the form and variation of the baculum, and Long (1969) discussed the gross anatomy of the penis. Pocock (1920, 1925) and Long (1965b) described cranial form in Taxidea taxus, and Long (1965a) discussed jaw articulation and tooth wear. Wright (1966, 1969)

described the form and tissues of the internal reproductive organs and accessory glands.

FUNCTION. Hardly anything is known about the physiology of Taxidea. At high elevations and latitudes badgers are torpid in winter, but probably are not true hibernators (Audubon and Bachman, 1847:366; Hamilton, 1939:134). They emerge on days of thaw (Seton, 1929; B. Bailey, 1929).

ONTOGENY AND REPRODUCTION. After mating in summer and early autumn (Davis and Robertson, 1944:264, Wright, 1966, 1969) impregnation occurs in females older than 1 year, and occasionally in juvenile (4 to 5 months) females (see also Hall, 1946:222). Usually three follicles ovulate (Wright, 1966). Implantation is delayed, development arrested in the blastula stage until between December and February (Hamlett, 1932:285-6) in Kansas, and until February in western Montana and South Dakota. Spermatogenesis lasts from May through August, and yearling males do not breed. Young are born in March and early April, furred and blind. Lactation occurs through June, and there is no post-partum estrus or further ovulation. Schwartz and Schwartz (1959:294) listed a maximum of seven embryos, but this record needs verification. Wright (1969) discussed the use of bacular length and annuli of lower canines and jaw in determining age. The badger lives in captivity to about 11 years, one living age. The badger lives in captivity to about 11 years, one living 13 years, 10 months, and 14 days (Flower, 1931:177). Jackson (1961:367) mentioned a life span of 15 years and 5 months. The changes with age in the skull are profound (Shufeldt, 1922). Self-sharpening and bracing of worn canines were discussed in relation to the hinge-locking mechanism of the jaw articulation by Long (1965a). Long (unpublished) has in manuscript remarks on the ontogeny of the skull, malting and growth molting, and growth.

ECOLOGY. Badger parasites include a variety of nematodes (Ortlett, 1922:1107; Herman and Goss, 1940; Kalkan and Hansen, 1966; Keppner, 1969a; Tiner, 1953; Leiby et al., 1971; Worley, 1961), tapeworms (Rausch, 1947; Keppner, 1967, 1969b; Leiby et al., 1971), flukes (Swanson and Erickson, 1946; Leiby et al., 1971), mallophaga (Emerson, 1964: 163), fleas (Fox, 1940:45; Ellis, 1955; and Hubbard, 1947: 502) and ticks (Hubbard, 1947; Ellis, 1955; Gregson, 1956). Jackson stated that badgers are susceptible to rabies and Some predation occurs on badgers by coyotes (Seton, 1929) and golden eagles (G. B. Grinnell, 1929). Today a great deal of mortality is caused by automobiles, guns, poisons, and traps. Density, vaguely estimated, has been reported as one badger per 2.6 square kilometers (square mile) and 10 dens per square mile (Seton, 1929). V. Bailey (1905) mentioned a badger spending a summer in a 20-acre (0.8 km²) field. Radio tracking has been attempted but few results are available. Sargeant and Warner (1972) reported data from radio-locations of a single female badger from summer into winter. "Overall home range" was determined as 850 hectares, and home range varied from 725 hectares in summer, to 53 in autumn, and to only 2 in winter. Usually the female dug a new den each day in summer, but reused dens considerably in autumn, and thereafter maintained a single den at least until 9 January. Burrows are used for dens, escape, and predation. Snead and Hendrickson (1942:389) described badger burrows. Foods are varied and include many small vertebrates, especially rodents (Errington, 1937; Snead and Hendrickson, 1942; Hamilton, 1939). Even fish, snakes, insects, honey combs, bees, and larvae, and bank swallow broods are eaten (Drake and Presnall, 1950; Jackson, 1961:368; Grinnell et al., 1937; Pot-

BEHAVIOR. The badger is reportedly active both day and night, and is exceedingly fossorial (Audubon and Bachman, 1847:365; Seton, 1929; Perry, 1939). It presents a ferocious appearance to enemies, emitting aggressive sounds described by Seton. Other "purring" sounds were described by Perry. The anal glands may be used in defense (Grinnell, et al., 1937). Males are solitary, except in the mating season, and females are usually so except when mating or rearing young. Davis (1946:175) suggested that the badger is not monogamous. Badgers may team with coyotes to catch rodents (Seton, 1929; Cahalane, 1950). The badger is a good swimmer (Seton, 1929; Wood, 1921). Reportedly the badger buries its dung (Walker et al., 1964), although scats are often figmer (Seton, 1929; Wood, 1921). Reportedly the badger puries its dung (Walker et al., 1964), although scats are often figured, presumably not buried. Play of the young and of captive badgers has been described by Seton, 1929; Audubon and Bachman, 1847:364; Perry, 1939; and Fry, 1928. Predation by one badger on ground squirrels was accomplished by lurking within a burrow (Balph, 1961).

REMARKS. Nothing is known about genetics of Taxidea. Meles alba Brisson (1762), type locality "Eboraco novo," known as "le Blaireau Blanc" was an albino raccoon according to Desmarest as reported by Richardson (1829:38). "Badgering" and "badger-baiting" with dogs was done chiefly with the old world badger Meles, but also with Taxidea according to Coues, 1877:283. The badger is exceptionally valuable to man as a predator on injurious rodents.

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